

CLAIMS

1. Device (1) for filling at least one mould (2) with at least one powder (3), characterised in that it comprises:

- means (4) for adding at least one powder (3),
- 5 - at least one means (5) for ejecting the powder added into the device, in the form of a layer (7),
- at least one deflector (9) capable of locally intercepting at least part of the said powder (3) ejected in the form of a layer and redirecting it
- 10 towards a determined location in the mould (2).

2. Filling device according to claim 1, characterised in that the deflector (9) is orientable.

15 3. Filling device according to claim 1, characterised in that the deflector (9) is mobile.

4. Filling device according to claim 1, characterised in that the means (5) for ejecting the powder in the form of a layer (7) is a rotating device.

20 5. Filling device according to the claim 4, characterised in that the shape of the rotary device is chosen from a disk, a cone or a bowl.

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6. Filling device according to the claim 5, characterised in that the rotating device comprises at least one rib.

7. Filling device according to claim 6,  
characterised in that the at least one rib is  
orientable.

5 8. Filling device according to claim 4,  
characterised in that the rotating device comprises a  
lower part and an upper part spaced from each other by  
a determined distance, the upper part having an orifice  
through which the powder enters and the powder being  
10 able to escape through the space between the two parts.

9. Filling device according to claim 4,  
characterised in that the rotating device is an element  
with a powder inlet and a powder outlet, the said  
15 element being arranged such that the inertia of the  
powder leaving the outlet is sufficiently high so that  
the powder is projected outside the element.

10. Filling device according to claim 9,  
20 characterised in that the element is a curved tube.

11. Filling device according to claim 1,  
characterised in that the means for adding at least one  
powder are at least one receptacle (37) comprising a  
25 powder inlet and a powder outlet, and the means for  
ejecting the powder in the form of a layer is a means  
used to quickly move the at least one receptacle (37)  
and to stop it suddenly so that the powder contained in  
it is sprayed outside the receptacle by inertia.

12. Filling device according to any one of claims  
1 to 10, characterised in that the at least one  
deflector (9) is placed in parallel with the rotation  
axis about which the means (5) rotates to eject the  
5 powder in the form of a layer (7).

13. Filling device according to any one of claims  
1 to 11, characterised in that the at least one  
deflector (9) is placed so as to be perpendicular to  
10 the median ejection plane of the powder layer.

14. Filling device according to claim 1,  
characterised in that the at least one deflector (9) is  
a part of the internal wall of the device (21,22).  
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15. Filling device according to claim 1,  
characterised in that the at least one deflector (9) is  
adapted to the shape of the determined location of the  
mould to be filled.